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**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A peak power regulator, input with at least one input signal, that outputs at least one output signal corresponding to the input signal, the power regulator comprising:
  - first and second delay apparatus that generate first and second delayed signals corresponding to the input signal;
  - a power estimation apparatus that generates, with use of the input signal, an overall input power estimation signal corresponding to the input signal;
  - a scaling factor generator that generates a scaling factor with use of the overall input power estimation signal and a maximum acceptable power signal;
  - an excess power correction generator that utilizes the scaling factor and the first delayed signal to generate an excess power correction signal;
  - a filtering apparatus that filters the excess power correction signal to generate a filtered excess power correction signal; and
  - an excess power removal apparatus that utilizes the filtered excess power correction signal and the second delayed signal to generate the output signal.
2. (Currently Amended) [[A]] The peak power regulator according to claim 1, wherein the scaling factor is equal to one if the scaling factor generator determines the overall input power estimation signal is less than or equal to the maximum acceptable power signal; and
  - wherein the scaling factor is equal to the maximum acceptable power signal divided by the overall input power estimation signal if the scaling factor generator determines the overall input power estimation signal is greater than the maximum acceptable power signal.
3. (Currently Amended) [[A]] The peak power regulator according to claim 1, wherein the excess power correction generator comprises a multiplier used to multiply the first delayed signal

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by a factor equal to one minus the scaling factor in order to generate the excess power correction signal and the filtering apparatus comprises a lowpass filter used to filter the excess power correction signal.

4. (Currently Amended) [[A]] The peak power regulator according to claim 1, wherein the excess power removal apparatus comprises a differential adder that subtracts the filtered excess power correction signal from the second delayed signal to generate the output signal.

5. (Currently Amended) [[A]] The peak power regulator according to claim 1, wherein the scaling factor generator comprises a first stage apparatus and a second stage apparatus;

wherein the output of the first stage apparatus is equal to one if the first stage apparatus determines the overall input power estimation signal is less than or equal to the maximum acceptable power signal;

wherein the output of the first stage apparatus is equal to the maximum acceptable power signal divided by the overall input power estimation signal if the first stage apparatus determines the overall input power estimation signal is greater than the maximum acceptable power signal; and

wherein the output of the second stage apparatus is the scaling factor, the scaling factor being equal to the output from the first stage apparatus divided by a root mean squared (RMS) output from the first stage apparatus over a predetermined period.

6. (Currently Amended) [[A]] The peak power regulator according to claim 1, input with in-phase and quadrature baseband input signals, that outputs in-phase and quadrature baseband output signals;

wherein the first and second delay apparatus generate first and second delayed in-phase and quadrature baseband signals;

wherein the power estimation apparatus generates the overall input power estimation signal corresponding to the baseband input signals with use of the baseband input signals;

wherein the excess power correction generator utilizes the scaling factor and the

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first delayed in-phase and quadrature baseband signals to generate in-phase and quadrature excess power correction signals;

wherein the filtering apparatus filters the in-phase and quadrature excess power correction signals to generate filtered in-phase and quadrature excess power correction signals; and

wherein the excess power removal apparatus utilizes the filtered in-phase and quadrature excess power correction signals and the second delayed in-phase and quadrature baseband signals to generate the in-phase and quadrature baseband output signals.

7. (Currently Amended) [[A]] The peak power regulator according to claim 6, wherein the power estimation apparatus comprises:

an in-phase baseband square device, input with the in-phase baseband input signal, that outputs a squared in-phase baseband signal;

a quadrature baseband square device, input with the quadrature baseband input signal, that outputs a squared quadrature baseband signal; and

an adder, input with the squared in-phase and quadrature baseband signals, that generates the overall input power estimation signal by summing the squared in-phase and quadrature baseband signals;

wherein the overall input power estimation signal corresponds to an overall input power level squared for the combined in-phase and quadrature baseband input signals and the maximum acceptable power signal corresponds to a maximum acceptable power level squared.

8. (Currently Amended) [[A]] The peak power regulator according to claim 6, wherein the scaling factor is equal to one if the scaling factor generator determines the overall input power estimation signal is less than or equal to the maximum acceptable power signal; and

wherein the scaling factor is equal to the maximum acceptable power signal divided by the overall input power estimation signal if the scaling factor generator determines the overall input power estimation signal is greater than the maximum acceptable power signal.

9. (Currently Amended) [[A]] The peak power regulator according to claim 6, wherein the

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excess power correction generator comprises two multipliers used to multiply both the first delayed in-phase and quadrature baseband signals by a factor equal to one minus the scaling factor to generate the in-phase and quadrature excess power correction signals and the filtering apparatus comprises two lowpass filters used to filter the in-phase and quadrature excess power correction signals.

10. (Currently Amended) [[A]] The peak power regulator according to claim 6, wherein the excess power removal apparatus comprises two differential adders that subtract the filtered in-phase and quadrature excess power correction signals from the second delayed in-phase and quadrature baseband signals to generate the in-phase and quadrature baseband output signals.

11. (Currently Amended) [[A]] The peak power regulator according to claim 6, wherein the scaling factor generator comprises a first stage apparatus and a second stage apparatus;

wherein the output of the first stage apparatus is equal to one if the first stage apparatus determines the overall input power estimation signal is less than or equal to the maximum acceptable power signal;

wherein the output of the first stage apparatus is equal to the maximum acceptable power signal divided by the overall input power estimation signal if the first stage apparatus determines the overall input power estimation signal is greater than the maximum acceptable power signal; and

wherein the output of the second stage apparatus is the scaling factor, the scaling factor being equal to the output from the first stage apparatus divided by a root mean squared (RMS) output from the first stage apparatus over a predetermined period.

12. (Currently Amended) [[A]] The CDMA transmitter comprising:

a data source coupled in series with a channel encoder and spreader, and a baseband pulse shaping filter;

a peak power regulator according to claim 6 input with the outputs from the baseband pulse shaping filter, the outputs from the baseband pulse shaping filter corresponding to the in-phase and quadrature baseband input signals; and

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a quadrature modulator, input with the in-phase and quadrature baseband output signals, coupled in series with an up-converter, a power amplifier, a radio frequency filter, and an antenna.

13. (Currently Amended) [[A]] The CDMA transmitter comprising:

a data source coupled in series with a channel encoder and spreader, and a baseband pulse shaping filter;

a plurality of peak power regulators according to claim 6 coupled in series, a first peak power regulator input with the outputs from the baseband pulse shaping filter, the outputs from the baseband pulse shaping filter corresponding to the in-phase and quadrature baseband input signals; and

a quadrature modulator, input with the in-phase and quadrature baseband output signals from a last peak power regulator, coupled in series with an up-converter, a power amplifier, a radio frequency filter, and an antenna.

14. (Currently Amended) [[A]] The CDMA transmitter comprising:

a plurality of data sources coupled in series with a plurality of channel encoder and spreaders, and a plurality of baseband pulse shaping filters that each output in-phase and quadrature baseband signals;

a multi-carrier combiner that combines the in-phase and quadrature baseband signals received from the baseband pulse shaping filters to generate the in-phase and quadrature baseband input signals;

a peak power regulator according to claim 6; and

a quadrature modulator, input with the in-phase and quadrature baseband output signals, coupled in series with an up-converter, a power amplifier, a radio frequency filter, and an antenna.

15. (Currently Amended) [[A]] The CDMA transmitter according to claim 14, wherein the multi-carrier combiner comprises:

at least one mixing device, input with the in-phase and quadrature baseband

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signals from one of the baseband pulse shaping filters, that outputs a pair of mixed in-phase and quadrature baseband signals;

an in-phase adder, input with the mixed in-phase baseband signal and at least one in-phase baseband signal from another of the baseband pulse shaping filters, that outputs the in-phase baseband input signal; and

a quadrature adder, input with the mixed quadrature baseband signal and at least one quadrature baseband signal from the other of the baseband pulse shaping filters, that outputs the quadrature baseband input signal.

16. (Currently Amended) [[A]] The CDMA transmitter according to claim 14, wherein the multi-carrier combiner comprises:

a plurality of mixing devices in which each mixing device is input with one pair of in-phase and quadrature baseband signals from one of the baseband pulse shaping filters and outputs a pair of mixed in-phase and quadrature baseband signals;

an in-phase adder, input with the mixed in-phase baseband signals, that outputs the in-phase baseband input signal; and

a quadrature adder, input with the mixed quadrature baseband signals, that outputs the quadrature baseband input signals.

17. (Currently Amended) [[A]] The CDMA transmitter comprising:

a plurality of data sources coupled in series with a plurality of channel encoder and spreaders, and a plurality of baseband pulse shaping filters;

a multi-carrier combiner that combines the outputs from the baseband pulse shaping filters to generate the in-phase and quadrature baseband input signals;

a plurality of peak power regulators according to claim 6 coupled in series, a first peak power regulator input with the in-phase and quadrature baseband input signals output from the multi-carrier combiner;

a quadrature modulator, input with the in-phase and quadrature baseband output signals from a last peak power regulator, coupled in series with an up-converter, a power

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amplifier, a radio frequency filter, and an antenna.

18. (Currently Amended) [[A]] The CDMA transmitter according to claim 17, wherein the multi-carrier combiner comprises:

at least one mixing device, input with the in-phase and quadrature baseband signals from one of the baseband pulse shaping filters, that outputs a pair of mixed in-phase and quadrature baseband signals;

an in-phase adder, input with the mixed in-phase baseband signal and at least one in-phase baseband signal from another of the baseband pulse shaping filters, that outputs the in-phase baseband input signal; and

a quadrature adder, input with the mixed quadrature baseband signal and at least one quadrature baseband signal from the other of the baseband pulse shaping filters, that outputs the quadrature baseband input signal.

19. (Currently Amended) [[A]] The CDMA transmitter according to claim 17, wherein the multi-carrier combiner comprises:

a plurality of mixing devices in which each mixing device is input with one pair of in-phase and quadrature baseband signals from one of the baseband pulse shaping filters and outputs a pair of mixed in-phase and quadrature baseband signals;

an in-phase adder, input with the mixed in-phase baseband signals, that outputs the in-phase baseband input signal; and

a quadrature adder, input with the mixed quadrature baseband signals, that outputs the quadrature baseband input signals.

20. (Currently Amended) [[A]] The peak power regulator according to claim 1, input with a plurality of pairs of in-phase and quadrature baseband input signals, that outputs a plurality of pairs of in-phase and quadrature baseband output signals;

wherein the first and second delay apparatus generate a plurality of pairs of first and second delayed in-phase and quadrature baseband signals;

wherein the power estimation apparatus generates the overall input power

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estimation signal corresponding to the pairs of baseband input signals with use of the pairs of baseband input signals;

wherein the excess power correction generator utilizes the scaling factor and the pairs of first delayed in-phase and quadrature baseband signals to generate a plurality of pairs of in-phase and quadrature excess power correction signals;

wherein the filtering apparatus filters the in-phase and quadrature excess power correction signals to generate filtered in-phase and quadrature excess power correction signals; and

wherein the excess power removal apparatus utilizes the filtered in-phase and quadrature excess power correction signals and the second delayed in-phase and quadrature baseband signals to generate the in-phase and quadrature baseband output signals.

21. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the power estimation apparatus comprises:

a plurality of in-phase baseband square devices, each input with one of the in-phase baseband input signals, that output a plurality of squared in-phase baseband signals;

a plurality of quadrature baseband square devices, each input with one of the quadrature baseband input signals, that output a plurality of squared quadrature baseband signals;

a plurality of first adders, each input with one of the pairs of squared in-phase and quadrature baseband signals, that sums each pair of squared in-phase and quadrature baseband signals to generate a plurality of first sums;

a plurality of square root devices, each input with one of the first sums, that square root the first sums to generate a plurality of baseband pair input power estimation signals; and

a second adder, input with the baseband pair input power estimation signals, that sums the baseband pair input power estimation signals to generate the overall input power estimation signal.

22. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the power estimation apparatus comprises:

at least one mixing device, input with one pair of in-phase and quadrature



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baseband input signals, that outputs a pair of mixed in-phase and quadrature baseband signals;  
 an in-phase adder, input with the mixed in-phase baseband signal and at least one in-phase baseband input signal, that outputs an in-phase sum;  
 a quadrature adder, input with the mixed quadrature baseband signal and at least one quadrature baseband input signal, that outputs a quadrature sum;  
 in-phase and quadrature square devices, input with the in-phase and quadrature sums respectively, that outputs squared in-phase and quadrature sums respectively;  
 a final adder, input with the squared in-phase and quadrature sums, that generates the overall input power estimation signal.

23. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the power estimation apparatus comprises:

at least one mixing device, input with one pair of in-phase and quadrature baseband input signals, that outputs a pair of mixed in-phase and quadrature baseband signals;  
 an in-phase adder, input with the mixed in-phase baseband signal and at least one in-phase baseband input signal, that outputs an in-phase sum;  
 a quadrature adder, input with the mixed quadrature baseband signal and at least one quadrature baseband input signal, that outputs a quadrature sum;  
 in-phase and quadrature square devices, input with the in-phase and quadrature sums respectively, that outputs squared in-phase and quadrature sums respectively;  
 a final adder, input with the squared in-phase and quadrature sums, that outputs a final sum; and  
 a square root device, input with the final sum, that square roots the final sum to generate the overall input power estimation signal.

24. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the power estimation apparatus comprises:

a plurality of mixing devices in which each mixing device, input with one pair of in-phase and quadrature baseband input signals, outputs a pair of mixed in-phase and quadrature baseband signals;

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an in-phase adder, input with the mixed in-phase baseband signals, that outputs an in-phase sum;  
 a quadrature adder, input with the mixed quadrature baseband signals, that outputs a quadrature sum;  
 in-phase and quadrature square devices, input with the in-phase and quadrature sums respectively, that outputs squared in-phase and quadrature sums respectively;  
 a final adder, input with the squared in-phase and quadrature sums, that generates the overall input power estimation signal.

25. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the power estimation apparatus comprises:

a plurality of mixing devices in which each mixing device, input with one pair of in-phase and quadrature baseband input signals, outputs a pair of mixed in-phase and quadrature baseband signals;  
 an in-phase adder, input with the mixed in-phase baseband signals, that outputs an in-phase sum;  
 a quadrature adder, input with the mixed quadrature baseband signals, that outputs a quadrature sum;  
 in-phase and quadrature square devices, input with the in-phase and quadrature sums respectively, that outputs squared in-phase and quadrature sums respectively;  
 a final adder, input with the squared in-phase and quadrature sums, that outputs a final sum; and  
 a square root device, input with the final sum, that square roots the final sum to generate the overall input power estimation signal.

26. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the scaling factor is equal to one if the scaling factor generator determines the overall input power estimation signal is less than or equal to the maximum acceptable power signal; and

wherein the scaling factor is equal to the maximum acceptable power signal divided by the overall input power estimation signal if the scaling factor generator determines the

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overall input power estimation signal is greater than the maximum acceptable power signal.

27. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the excess power correction generator comprises a plurality of pairs of multipliers used to multiply each first delayed in-phase and quadrature baseband signal by a factor equal to one minus the scaling factor to generate the in-phase and quadrature excess power correction signals and the filtering apparatus comprises a plurality of lowpass filters used to filter the in-phase and quadrature excess power correction signals.

28. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the excess power removal apparatus comprises a plurality of differential adders that subtract the filtered in-phase and quadrature excess power correction signals from the corresponding second delayed in-phase and quadrature baseband signals to generate the in-phase and quadrature baseband output signals.

29. (Currently Amended) [[A]] The peak power regulator according to claim 20, wherein the scaling factor generator comprises a first stage apparatus and a second stage apparatus;

wherein the output of the first stage apparatus is equal to one if the first stage apparatus determines the overall input power estimation signal is less than or equal to the maximum acceptable power signal;

wherein the output of the first stage apparatus is equal to the maximum acceptable power signal divided by the overall input power estimation signal if the first stage apparatus determines the overall input power estimation signal is greater than the maximum acceptable power signal; and

wherein the output of the second stage apparatus is the scaling factor, the scaling factor being equal to the output from the first stage apparatus divided by a root mean squared (RMS) output from the first stage apparatus over a predetermined period.

30. (Currently Amended) [[A]] The CDMA transmitter comprising:

a plurality of data sources coupled in series with a plurality of channel encoder

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and spreaders, and a plurality of baseband pulse shaping filters;

a peak power regulator according to claim 20 input with the outputs from the baseband pulse shaping filters, the outputs from each baseband pulse shaping filter corresponding to one of the pairs of in-phase and quadrature baseband input signals;

a plurality of quadrature modulators, each input with one of the pairs of in-phase and quadrature baseband output signals; and

a combiner, that combines the outputs from the quadrature modulators, coupled in series with an up-converter, a multi-carrier power amplifier, a radio frequency filter, and an antenna.

31. (Currently Amended) [[A]] The CDMA transmitter comprising:

a plurality of data sources coupled in series with a plurality of channel encoder and spreaders, and a plurality of baseband pulse shaping filters;

a plurality of peak power regulators according to claim 20 coupled in series, a first peak power regulator input with the outputs from the baseband pulse shaping filters, the outputs from each baseband pulse shaping filter corresponding to one of the pairs of in-phase and quadrature baseband input signals;

a plurality of quadrature modulators, each input with one of the pairs of in-phase and quadrature baseband output signals from a last peak power regulator; and

a combiner, that combines the outputs from the quadrature modulators, coupled in series with an up-converter, a multi-carrier power amplifier, a radio frequency filter, and an antenna.

32. (Original) An envelope magnitude regulator, input with at least one IF input signal, that outputs at least one IF output signal corresponding to the IF input signal, the envelope magnitude regulator comprising:

first and second delay apparatus that generate first and second delayed IF signals corresponding to the IF input signal;

an envelope magnitude estimation apparatus that generates, with use of the IF input signal, an overall input envelope magnitude estimation signal corresponding to the IF input

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signal;

a scaling factor generator that generates a scaling factor with use of the overall input envelope magnitude estimation signal and a maximum acceptable envelope magnitude signal;

an excess power correction generator that utilizes the scaling factor and the first delayed IF signal to generate an excess power correction signal;

a filtering apparatus that filters the excess power correction signal to generate a filtered excess power correction signal; and

an excess power removal apparatus that utilizes the filtered excess power correction signal and the second delayed IF signal to generate the IF output signal.

33. (Currently Amended) [[A]] The CDMA transmitter comprising:

a data source coupled in series with a channel encoder and spreader, a baseband pulse shaping filter, and a quadrature modulators;

an envelope magnitude regulator according to claim 32 input with the output from the quadrature modulator, the output from the quadrature modulator corresponding to the IF input signal; and

an up-converter, input with the IF output signal, coupled in series with a power amplifier, a radio frequency filter, and an antenna.

34. (Currently Amended) [[A]] The CDMA transmitter comprising:

a plurality of data sources coupled in series with a plurality of channel encoder and spreaders, a plurality of baseband pulse shaping filters, and a plurality of quadrature modulators;

a combiner, that combines the outputs from the quadrature modulators;

an envelope magnitude regulator according to claim 32 input with the output from the combiner, the output from the combiner corresponding to the IF input signal; and

an up-converter, input with the IF output signal, coupled in series with a multi-carrier power amplifier, a radio frequency filter, and an antenna.

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35. (Currently Amended) [[An]] The envelope magnitude regulator according to claim 32, input with a plurality of IF input signals, that outputs a plurality of IF output signals;  
wherein the first and second delay apparatus generate a plurality of first and second delayed IF signals;  
wherein the envelope magnitude estimation apparatus generates the overall input envelope magnitude estimation signal corresponding to the IF input signals with use of the IF input signals;  
wherein the excess power correction generator utilizes the scaling factor and the first delayed IF signals to generate a plurality of excess power correction IF signals;  
wherein the filtering apparatus filters the excess power correction IF signals to generate filtered excess power correction IF signals; and  
wherein the excess power removal apparatus utilizes the filtered excess power correction signals and the second delayed IF signals to generate the IF output signals.

36. (Currently Amended) [[An]] The envelope magnitude regulator according to claim 35, wherein the envelope magnitude estimation apparatus comprises:  
an adder, input with the IF input signals, that sums the IF input signals to generate a first sum; and  
an envelope detector, input with the first sum, that generates the overall input envelope magnitude estimation signal.

37. (Currently Amended) [[An]] The envelope magnitude regulator according to claim 36, wherein the envelope detector comprises:  
an absolute value device that generates an absolute value IF signal with use of the first sum; and  
a maximum value detector, input with the absolute value IF signal, that determines the maximum input value over a predetermined amount of time, this maximum input value corresponding to the overall input envelope magnitude estimation signal.

38. (Currently Amended) [[An]] The envelope magnitude regulator according to claim 36,

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wherein the envelope detector comprises:

- an up-sampling and interpolation device that generates an interpolated IF signal with use of the first sum;
- an absolute value device that generates an absolute value IF signal with use of the interpolated IF signal; and
- a maximum value detector, input with the absolute value IF signal, that determines the maximum input value over a predetermined amount of time, this maximum input value corresponding to the overall input envelope magnitude estimation signal.

39. (Currently Amended) [[An]] The envelope magnitude regulator according to claim 35, wherein the scaling factor is equal to one if the scaling factor generator determines the overall input envelope magnitude estimation signal is less than or equal to the maximum acceptable envelope magnitude signal; and

wherein the scaling factor is equal to the maximum acceptable envelope magnitude signal divided by the overall input envelope magnitude estimation signal if the scaling factor generator determines the overall input envelope magnitude estimation signal is greater than the maximum acceptable envelope magnitude signal.

40.(Currently Amended) [[An]] The envelope magnitude regulator according to claim 35, wherein the excess power correction generator comprises a plurality of multipliers used to multiply each first delayed IF signal by a factor equal to one minus the scaling factor to generate the excess power correction IF signals and the filtering apparatus comprises a plurality of bandpass filters used to filter the excess power correction IF signals.

41. (Currently Amended) [[An]] The envelope magnitude regulator according to claim 35, wherein the excess power removal apparatus comprises a differential adder that subtracts the filtered excess power correction IF signals from the second delayed IF signals to generate the output IF signals.

42. (Currently Amended) [[An]] The envelope magnitude regulator according to claim 35,

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wherein the scaling factor generator comprises a first stage apparatus and a second stage apparatus;

wherein the output of the first stage apparatus is equal to one if the first stage apparatus determines the overall input envelope magnitude estimation signal is less than or equal to the maximum acceptable envelope magnitude signal;

wherein the output of the first stage apparatus is equal to the maximum acceptable envelope magnitude signal divided by the overall input envelope magnitude estimation signal if the first stage apparatus determines the overall input envelope magnitude estimation signal is greater than the maximum acceptable envelope magnitude signal; and

wherein the output of the second stage apparatus is the scaling factor, the scaling factor being equal to the output from the first stage apparatus divided by a root mean squared (RMS) output from the first stage apparatus over a predetermined period.

43. (Currently Amended) [[A]] The CDMA transmitter comprising:

a plurality of data sources coupled in series with a plurality of channel encoder and spreaders, a plurality of baseband pulse shaping filters, and a plurality of quadrature modulators;

an envelope magnitude regulator according to claim 35 input with the outputs from the quadrature modulators, the output from each quadrature modulator corresponding to one of the IF input signals; and

a combiner, that combines the IF output signals from the envelope magnitude regulator, coupled in series with an up-converter, a multi-carrier power amplifier, a radio frequency filter, and an antenna.

44. (Currently Amended) [[A]] The CDMA transmitter comprising:

a plurality of data sources coupled in series with a plurality of channel encoder and spreaders, a plurality of baseband pulse shaping filters, and a plurality of quadrature modulators;

a plurality of envelope magnitude regulators according to claim 35 coupled in series, a first envelope magnitude regulator input with the outputs from the quadrature



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modulators, the output from each quadrature modulator corresponding to one of the IF input signals; and

a combiner, that combines the IF output signals from a last envelope magnitude regulator, coupled in series with an up-converter, a multi-carrier power amplifier, a radio frequency filter, and an antenna.

45. (Original) In a peak power regulator, input with at least one input signal, that outputs at least one output signal corresponding to the input signal, a method for regulating output power comprising the steps of:

- estimating the overall input power level corresponding to the input signal;
- generating a scaling factor with use of the estimate of the overall input power level and a maximum acceptable input power signal;
- delaying the input signal by a first amount;
- generating an excess power correction signal with use of the scaling factor and the input signal delayed by the first amount;
- filtering the excess power correction signal;
- delaying the input signal by a second amount larger than the first amount; and
- generating the output signal with use of the input signal delayed by the second amount and the filtered excess power correction signal.

46. (Original) A peak power regulator, input with at least one input signal, that outputs at least one output signal corresponding to the input signal, the power regulator comprising:

- first and second delay apparatus that generate first and second delayed signals corresponding to the input signal;
- a power estimation apparatus that generates, with use of the input signal, an overall input power estimation signal corresponding to the input signal;
- a scaling factor generator that generates a scaling factor with use of the overall input power estimation signal and a maximum acceptable power signal;
- an excess power correction generator that utilizes the scaling factor and the first delayed signal to generate an excess power correction signal;

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an excess power removal apparatus that utilizes the excess power correction signal and the second delayed signal to generates a scaled signal corresponding to the output signal; and

a filtering apparatus that filters the scaled signal to generate the output signal.